Philpott Project
Drought Update—01 November 2001

1 **Tabulated Philpott Watershed Rainfall and Inflows**. From June 1998 to mid-October 2001 as shown in Table One below, only nine out of these 41 months have had above normal rainfall. The remaining months have had rainfall typically averaging from 30 to 70 percent of normal. One month (October 2000) had no rainfall. None of the previous 41 months had inflows at or above normal. All were below normal. Basically, the past few weeks have had inflows running less than 20 percent of normal. **Over the past 41 months, average rainfall in the Philpott watershed has averaged about 1.2 inches below normal per month.** With this deficit, inflows to Philpott Dam over the past 41 months has averaged 44 percent of normal. Table one on the next page tabulates the monthly average inflow and total watershed rainfall since drought conditions began.

Table One

Philpott Lake--Inflows, Rainfall, and Lake Levels From June 1988 to Present

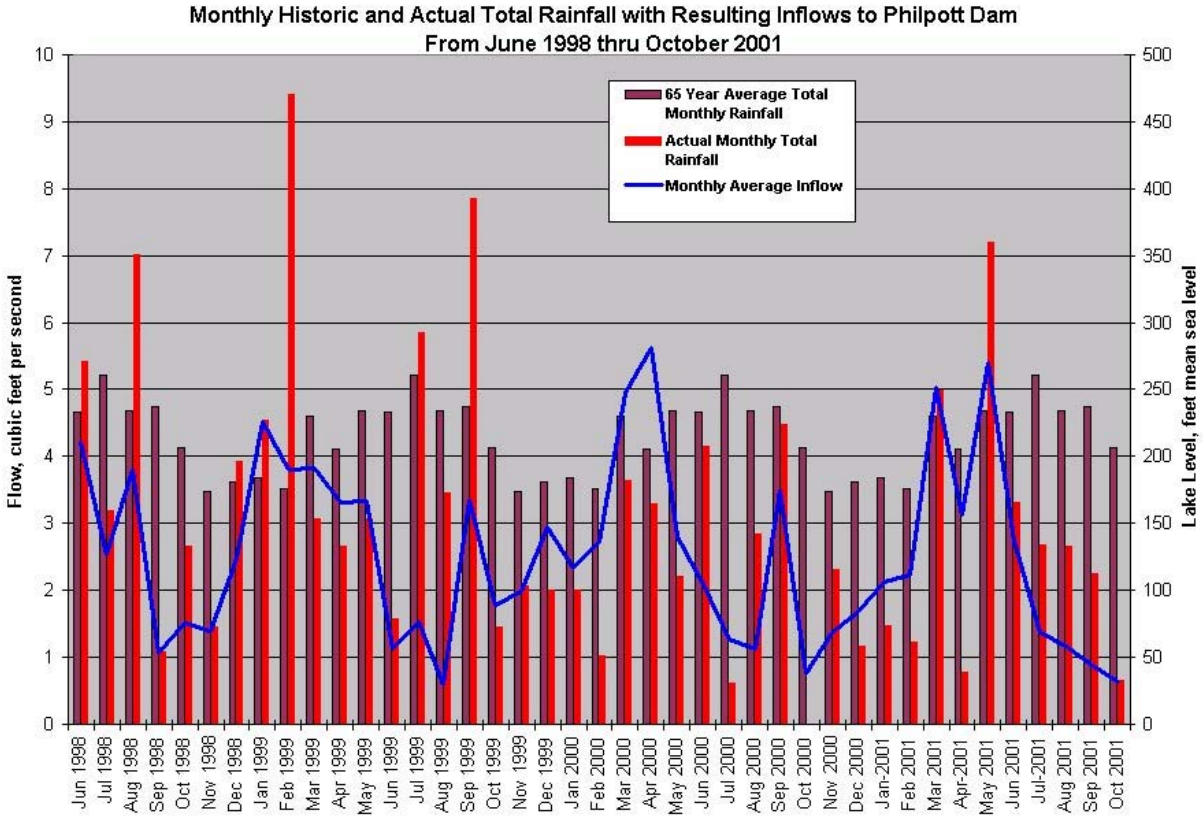
	Inflow to Philpott			Watershed Rainfall			Lake Level	Guide Lvl
	Long Term Avg	Actual	Percent of Normal	Long Term Avg	Actual	Percent of Normal	at End of Period Ft, msl	at End of Period Ft, msl
Jun 1998	262	211	80.5	4.67	5.41	115.8	973.47	973.5
Jul 1998	227	127	55.9	5.22	3.19	61.1	971.28	973.5
Aug 1998	211	190	90.0	4.68	7.02	150.0	970.67	972.5
Sep 1998	221	53	24.0	4.74	1.09	23.0	967.71	971.5
Oct 1998	240	76	31.7	4.13	2.66	64.4	966.11	971.5
Nov 1998	242	70	28.9	3.48	1.45	41.7	964.26	971.5
Dec 1998	265	124	46.8	3.61	3.93	108.9	963.53	971.5
Jan 1999	302	226	74.8	3.68	4.53	123.1	966.31	971.5
Feb 1999	346	190	54.9	3.51	9.40	267.8	968.06	972.5
Mar 1999	405	191	47.2	4.61	3.07	66.6	969.77	973.5
Apr 1999	407	166	40.8	4.12	2.65	64.3	970.00	973.5
May 1999	312	167	53.5	4.68	3.06	65.4	971.06	973.5
Jun 1999	262	56	21.4	4.67	1.58	33.8	968.18	973.5
Jul 1999	227	77	33.9	5.22	5.84	111.9	964.86	973.5
Aug 1999	211	30	14.2	4.68	3.46	73.9	957.68	972.5
Sep 1999	221	168	76.0	4.74	7.85	165.6	957.41	971.5
Oct 1999	240	89	37.1	4.13	1.45	35.1	957.03	971.5
Nov 1999	242	99	40.9	3.48	2.06	59.2	956.66	971.5
Dec 1999	265	147	55.5	3.61	2.00	55.4	957.61	971.5
Jan 2000	302	117	38.7	3.68	2.01	54.6	957.93	971.5
Feb 2000	346	136	39.3	3.51	1.03	29.3	958.53	972.5
Mar 2000	405	247	61.0	4.61	3.65	79.2	962.25	973.5
Apr 2000	407	281	69.0	4.12	3.30	80.1	966.47	973.5
May 2000	312	140	44.9	4.68	2.21	47.2	967.67	973.5
Jun 2000	262	104	39.7	4.67	4.16	89.1	967.90	973.5
Jul 2000	227	63	27.8	5.22	0.62	11.9	967.21	973.5
Aug 2000	211	56	26.5	4.68	2.85	60.9	966.36	972.5
Sep 2000	221	175	79.2	4.74	4.48	94.5	968.16	971.5
Oct 2000	240	38	15.8	4.13	0.00	0.0	966.91	971.5
Nov 2000	242	68	28.1	3.48	2.32	66.7	966.33	971.5
Dec 2000	265	84	31.7	3.61	1.16	32.1	966.07	971.5
Jan 2001	302	106	35.1	3.68	1.47	39.9	966.30	971.5

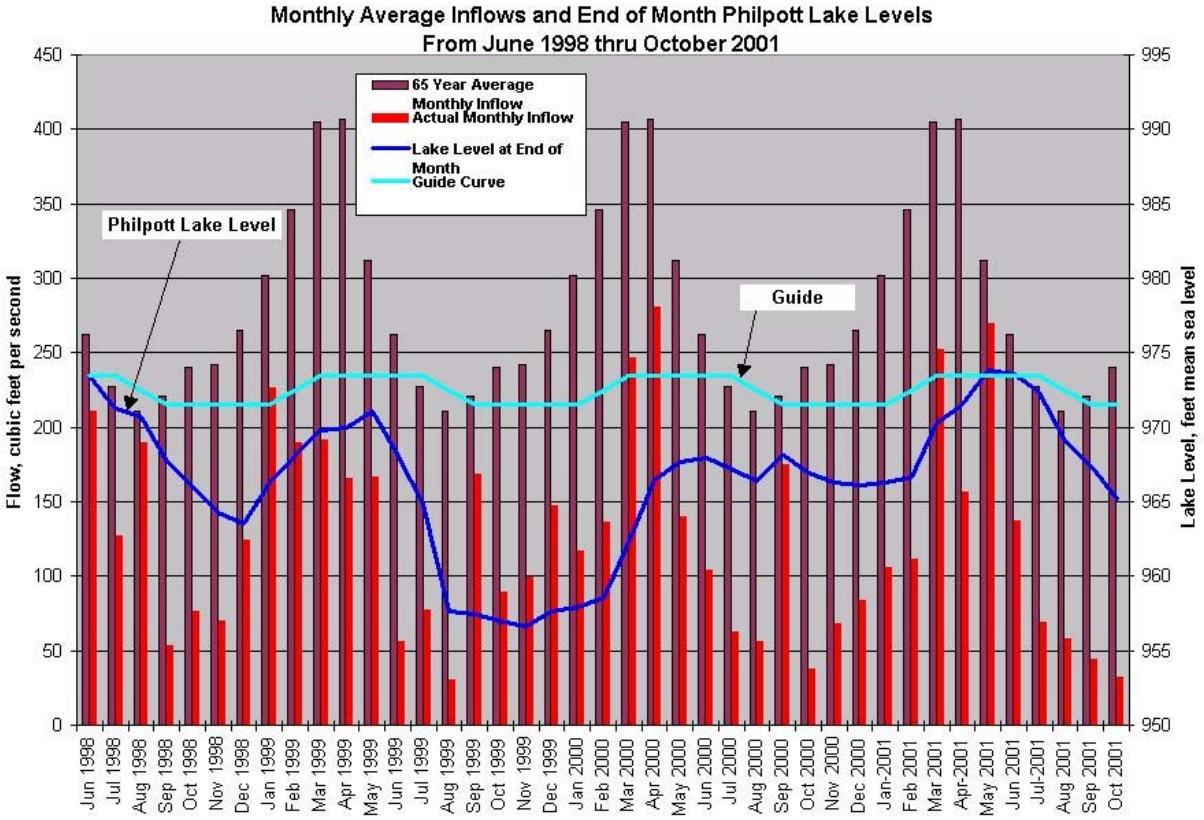
Table One (Continued)

Philpott Lake--Inflows, Rainfall, and Lake Levels From June 1988 to Present

	Inflow to Philpott			Watershed Rainfall			Lake Level	Guide Lvl
	Long Term Avg	Actual	Percent of Normal	Long Term Avg	Actual	Percent of Normal	at End of Period Ft, msl	at End of Period Ft, msl
Feb 2001	346	111	32.1	3.51	1.22	34.8	966.67	972.5
Mar 2001	405	252	62.2	4.61	4.99	108.2	970.23	973.5
Apr 2001	407	156	38.3	4.12	0.77	18.7	971.56	973.5
May 2001	312	270	86.5	4.68	7.19	153.6	973.83	973.5
Jun 2001	262	137	52.3	4.67	3.31	70.9	973.60	973.5
Jul 2001	227	69	30.4	5.22	2.67	51.1	972.36	973.5
Aug 2001	211	58	27.5	4.68	2.66	56.8	969.02	972.5
Sep 2001	221	44	19.9	4.74	2.24	47.3	967.42	971.5
Oct 2001	240	32	13.3	4.13	0.66	16.0	965.22	971.5
Average	280	127	44.1	4.26	3.09	71.5		

2. **Plotted Philpott Project Watershed Rainfall, Project Inflows and End of Month Lake Level**. The following plots illustrate the data in Table One and the relationship between rainfall, resultant net inflow to Philpott Dam and the end of month Philpott Lake levels. There are no surprises in either plot. As expected, inflows and lake levels increase when rainfall increases and declines upon continued low rainfall conditions.





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3. **<u>Status of Philpott Lake</u>**: Concerns over the reliability of the turbines in Philpott Dam continue. Both turbines are over 50 years old. One turbine is currently online but operating at a reduced load. The other turbine is offline and is still undergoing maintenance.

The long term forecast of Philpott is currently being analyzed using input from many partners both upstream and downstream. This forecast will be included in this report when completed.

9. **Recreation Status of Philpott Lake**: Table two below tabulates the levels of bottom of boat ramp elevations at Philpott Lake. The lake elevation should be at least three feet higher than the bottom of ramp elevation for the ramp to be useable. As can be derived from the table, boat-ramp access to the lake becomes increasingly limited below pool elevation 960 feet, msl.

Table Two
Public Boat Ramps at Philpott Lake

Location	Number Of Lanes	Bottom Ramp Elevation (feet, m.s.l.)
Philpott Park	3	953
	1	948
Bowens Creek	2	953
Goose Point	1	953
Salthouse Branch	1	967
	2	957
Twinridge Marina	2	954
Horseshoe Point	2	953
Jamison Mill	1	962
Ryans Branch	2	955
Runnett Bag	1	960